

## In Memoriam: Jeremy Lys (1938-2016)

Jeremy Lys, a longtime physicist at UC Berkeley and Lawrence Berkeley National Lab, passed away earlier this month from complications of Parkinson's Disease.

Jeremy was Born in Dannevirke New Zealand in 1938, grew up on a sheep farm, and attended New Plymouth High School, prior to completing bachelors and masters degrees in physics at the University of Canterbury in Christchurch. He traveled by ship to England to pursue a doctorate in particle physics at Oxford, completing his studies in 1964 with a thesis cryptically entitled: "Some Experiments with Bubble Chambers," in keeping with a characteristically understated sense of humor.

Jeremy would continue in high energy physics for almost 50 years, beginning with postdoc appointments at the University of Liverpool (where he witnessed the Beatles on parade) and at the University of Michigan. While at Ann Arbor in the 1960s, he flipped a coin with his late housemate, Alan Loceff, over who would babysit a friend's child, and who would go to a house party that evening. Jeremy landed with the soire, and it was there he met his future wife of almost fifty years, Annette.

The couple moved to Australia (1972-1975), where Jeremy taught high school physics, and then to Illinois, where he returned to research, at Fermilab. In 1977 he moved to California as a research scientist at UC Berkeley. He joined the late Professor Harry Bingham working on a neutrino oscillations experiment at Fermilab. In 1993 he retired from UC but continued particle physics research at the Lawrence Berkeley Laboratory. He joined the group (lead by Lina Galtieri) working on the CDF experiment at Fermilab. Later he contributed to the preparation of the ATLAS experiment at the Large Hadron Collider in Switzerland. He continued working until his health started deteriorating in 2013.

Jeremy was a very good physicist, as demonstrated by the fact that he moved through many experiments, contributing ideas and delivering results. Very competent in analyzing data, in particular very strong in statistics, he was often called on for reviewing other's ideas. Graduate students sought his approval of their work and searched his counsel when they encountered difficulties. At CDF he participated effectively in the search for the top quark, spending, again, much time at Fermilab. Subsequently of the top quark discovery, he was very much involved in the measurement of its properties. Jeremy was always ready to discuss any physics topic that came around. He was very modest and unassuming, and he was always ready to help on any physics endeavor.

Outside of physics, he excelled in athletics, from rugby and cricket in his youth and early adulthood, to a late in life pursuit of long distance running, always in a spirit of both friendship and competition. He ran in the Berkeley Lab Runaround race many times. His records for the 50-60 and 60-70 year old categories, established in 1998 and 2008, are not yet broken. Jeremy volunteered as a math and physics tutor for local students, and was active for many years with the Lake Merritt Joggers and Striders running club. He also served as part of a group of parents who helped to turn Berkeley's Jefferson School playground into an oasis of greenery in the mid 1980s.

Jeremy is survived by his wife (and caretaker in his final years) Annette, his children, Lynley and Eion, his brothers, Frank (Helen) and Michael (Heather), and extended family, friends, neighbors, and colleagues in the US, New Zealand, and around the world.

Services will be private. In lieu of flowers, donations can be made to local food banks, the Physics Department at UC Berkeley, <http://physics.berkeley.edu/about-us/donate-now> (choose "The Physics Reading Room and Undergraduate Learning Center Project Fund"), or to the University of Canterbury Foundation, <http://www.canterbury.ac.nz/alumni/donate.shtml>